

Water Management

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Mahaska County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7: Wiota-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.04	Very limited Deep to water	1.00
8B: Judson-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
8C: Judson-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
11B: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Ely-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.43 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
13B: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
Vesser-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.04	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
24D2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00
24E2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00
41C: Sparta-----	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00

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43: Bremer-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
51: Vesser-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.09	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
51B: Vesser-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.09	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
53: Riverwash-----	Not rated		Not rated		Not rated	
54: Zook-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.89	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
54+: Zook-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.72	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
54B: Zook-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
63C: Chelsea-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.96	Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
63D2: Chelsea-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.96	Very limited Deep to water	1.00
63E2: Chelsea-----	Very limited Seepage Slope	1.00 0.04	Somewhat limited Seepage	0.96	Very limited Deep to water	1.00
63F2: Chelsea-----	Very limited Seepage Slope	1.00 0.18	Somewhat limited Seepage	0.96	Very limited Deep to water	1.00
65D2: Lindley-----	Somewhat limited Seepage Slope	0.05 0.01	Somewhat limited Piping	0.64	Very limited Deep to water	1.00
65E2: Lindley-----	Somewhat limited Seepage Slope	0.05 0.04	Somewhat limited Piping	0.64	Very limited Deep to water	1.00
65F2: Lindley-----	Somewhat limited Slope Seepage	0.18 0.05	Somewhat limited Piping	0.64	Very limited Deep to water	1.00
69C: Clearfield-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.56	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
69C2: Clearfield-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.56	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
74: Rubio-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.47	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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Mahaska County, Iowa

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
75: Givin-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone Hard to pack	0.43 0.36	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.25 0.10
76B: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
76C: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
76C2: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
76D: Ladoga-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
76D2: Ladoga-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
80B: Clinton-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
80C: Clinton-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
80C2: Clinton-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
80D2: Clinton-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80D3: Clinton-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
80E2: Clinton-----	Somewhat limited Seepage Slope	0.70 0.04	Not limited		Very limited Deep to water	1.00
88: Nevin-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
98: Huntsville-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.67	Very limited Deep to water	1.00
122: Sperry-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.26	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
131B: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.25 0.10
131C2: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.25 0.10
132C2: Weller-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.25 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.30
					Cutbanks cave	0.10
133+: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill	0.30
					Cutbanks cave	0.10
133B: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.30
					Cutbanks cave	0.10
163B: Fayette-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Deep to water	1.00
163C2: Fayette-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Deep to water	1.00
163D2: Fayette-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.03	Very limited Deep to water	1.00
163E2: Fayette-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.06	Very limited Deep to water	1.00
179D2: Gara-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00
179E2: Gara-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179F2: Gara-----	Somewhat limited Slope Seepage	0.18 0.05	Not limited		Very limited Deep to water	1.00
208: Landes-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.94	Very limited Deep to water	1.00
210G: Boone-----	Somewhat limited Seepage Slope Depth to bedrock	0.57 0.45 0.11	Very limited Seepage Thin layer	1.00 0.86	Very limited Deep to water	1.00
212: Kennebec-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.79	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
220: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
222C: Clarinda-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.89	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
222C2: Clarinda-----	Somewhat limited Seepage	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.89	Somewhat limited Slow refill Cutbanks cave Deep to water	0.99 0.10 0.01
222D2: Clarinda-----	Somewhat limited Seepage Slope	0.01 0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.89	Somewhat limited Slow refill Cutbanks cave Deep to water	0.99 0.10 0.01

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
248: Zook-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.97	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
269: Humeston-----	Somewhat limited Seepage	0.57	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
270: Spillville-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.96	Very limited Cutbanks cave Deep to water	1.00 0.81
273B: Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.27	Very limited Deep to water	1.00
273C: Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.27	Very limited Deep to water	1.00
279: Taintor-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.12	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
280: Mahaska-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Hard to pack	0.43 0.07	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
280B: Mahaska-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Hard to pack	0.43 0.07	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
281B: Otley-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
281C: Otley-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
281C2: Otley-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
281D: Otley-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
281D2: Otley-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
284: Flagler-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.20	Very limited Deep to water	1.00
293C2: Chelsea-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.96	Very limited Deep to water	1.00
Clinton-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
293D2: Chelsea-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.96	Very limited Deep to water	1.00
Clinton-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
293E2: Chelsea-----	Very limited Seepage Slope	1.00 0.04	Somewhat limited Seepage	0.96	Very limited Deep to water	1.00
Clinton-----	Somewhat limited Seepage Slope	0.70 0.04	Not limited		Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
313D: Gosport-----	Somewhat limited		Very limited		Very limited	
	Depth to bedrock	0.11	Hard to pack	1.00	Slow refill	1.00
	Slope	0.01	Depth to saturated zone	0.95	Cutbanks cave	0.10
			Thin layer	0.86	Deep to water	0.02
313E: Gosport-----	Somewhat limited		Very limited		Very limited	
	Depth to bedrock	0.11	Hard to pack	1.00	Slow refill	1.00
	Slope	0.04	Depth to saturated zone	0.95	Cutbanks cave	0.10
			Thin layer	0.86	Deep to water	0.02
313F: Gosport-----	Somewhat limited		Very limited		Very limited	
	Slope	0.18	Hard to pack	1.00	Slow refill	1.00
	Depth to bedrock	0.11	Depth to saturated zone	0.95	Cutbanks cave	0.10
			Thin layer	0.86	Deep to water	0.02
315: Nodaway-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.70	Piping	1.00	Deep to water	0.81
					Slow refill	0.30
					Cutbanks cave	0.10
Alluvial Land-----	Not rated		Not rated		Not rated	
354: Marsh-----	Not rated		Not rated		Not rated	
362: Haig-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.70	Depth to saturated zone	1.00	Slow refill	0.30
					Cutbanks cave	0.10
364B: Grundy-----	Somewhat limited		Somewhat limited		Somewhat limited	
	Seepage	0.05	Depth to saturated zone	0.95	Slow refill	0.95
			Hard to pack	0.66	Cutbanks cave	0.10
					Deep to water	0.02

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364C2: Grundy-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone Hard to pack	0.95 0.66	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.02
412G: Sogn-----	Very limited Seepage Depth to bedrock Slope	1.00 1.00 0.45	Very limited Thin layer Piping	1.00 0.18	Very limited Deep to water	1.00
422: Amana-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.43 0.02	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
424D2: Lindley-----	Somewhat limited Seepage Slope	0.05 0.01	Somewhat limited Piping	0.64	Very limited Deep to water	1.00
Keswick-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
424E2: Lindley-----	Somewhat limited Seepage Slope	0.05 0.04	Somewhat limited Piping	0.64	Very limited Deep to water	1.00
Keswick-----	Somewhat limited Seepage Slope	0.05 0.04	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
428B: Ely-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.43 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10

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442C2: Sparta-----	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Otley-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
442D2: Sparta-----	Very limited Seepage Slope	1.00 0.01	Very limited Seepage	1.00	Very limited Deep to water	1.00
Otley-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
451D2: Caleb-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping Seepage	0.13 0.06	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
451E2: Caleb-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping Seepage	0.13 0.06	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
451F2: Caleb-----	Somewhat limited Seepage Slope	0.70 0.18	Somewhat limited Piping Seepage	0.13 0.06	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
453: Tuskeego-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.38	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
467: Radford-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01

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485: Spillville-----	Very limited Seepage	1.00	Somewhat limited Piping	0.84	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
489: Ossian-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
502: Mine Pits And Dumps-	Not rated		Not rated		Not rated	
570B: Nira-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
570C: Nira-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
570C2: Nira-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
571B: Hedrick-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
571C: Hedrick-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
571C2: Hedrick-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
571D2: Hedrick-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
571E2: Hedrick-----	Somewhat limited Seepage Slope	0.70 0.04	Not limited		Very limited Deep to water	1.00

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663D2: Seaton-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.89	Very limited Deep to water	1.00
663E2: Seaton-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.89	Very limited Deep to water	1.00
663F2: Seaton-----	Somewhat limited Seepage Slope	0.70 0.18	Somewhat limited Piping	0.89	Very limited Deep to water	1.00
687: Watkins-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.61	Very limited Deep to water	1.00
687B: Watkins-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.61	Very limited Deep to water	1.00
792D2: Armstrong-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
822C2: Lamoni-----	Not limited		Very limited Depth to saturated zone	1.00	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
822D2: Lamoni-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone	1.00	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
993D2: Gara-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00

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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Mahaska County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
	Slope	0.01			Cutbanks cave Deep to water	0.10 0.01
993E2: Gara-----	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
	Slope	0.04				
Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
	Slope	0.04			Cutbanks cave Deep to water	0.10 0.01
C220: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
C422: Amana-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.43 0.03	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
T75: Givin-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone Hard to pack	0.43 0.36	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.25 0.10
T76B: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
T76C2: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
T162B: Downs-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.21	Very limited Deep to water	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

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Mahaska County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
T279: Taintor-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.12	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
T280: Mahaska-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
T281B: Otley-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
T281C2: Otley-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00